

**Had. parameterization
validation**

validation 'operations'

Goals

- ⇒ make 1k events/ η bin: 100 GeV pions
- ⇒ same configuration as Matti

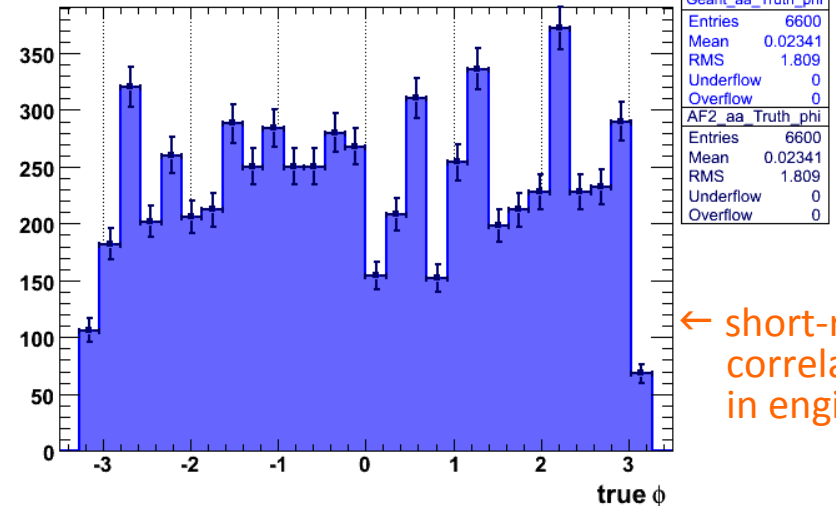
Lessons

- ⇒ run longer evgen jobs
- ⇒ add π^-
- ⇒ add uncalibrated TopoClusters in AOD

Prospects

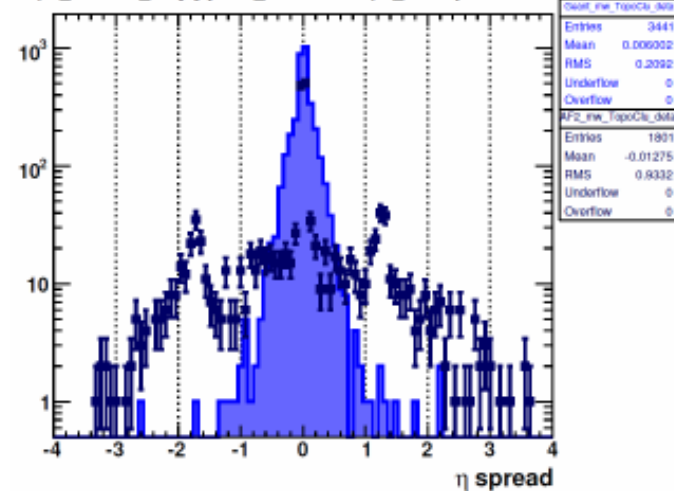
- ⇒ 80 CPUs shared by LBL/ATLAS group
- ⇒ should be able to process **1-2 energy points per week** from scratch

Gen_phi { Gen_N > 0 } (lin. scale)



← short-range correlations in engine

Topo_eta-Gen_eta[0] { Gen_N > 0 && Topo_N > 0 }



validation plots

⇒ CombinedClusters:

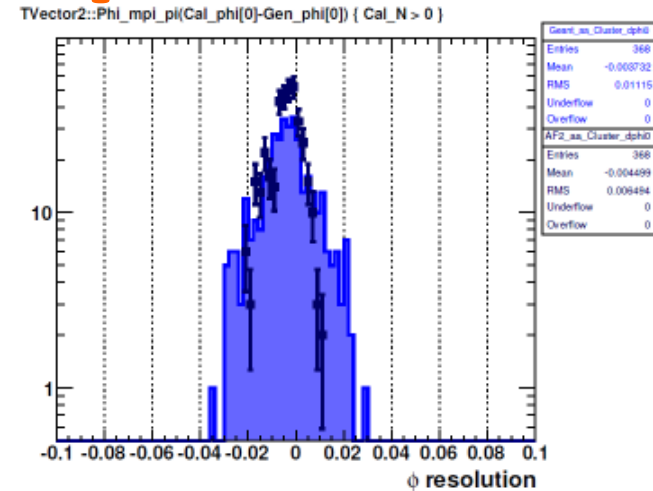
- ⇒ Total cluster energy, pT
- ⇒ Total EM energy, location of MIP peak
- ⇒ Energy in 3 tile barrel samplings
- ⇒ Cluster angular resolution (η, ϕ)
 - ⇒ ϕ width is only uniformly bad one

⇒ TopoClusters not ready

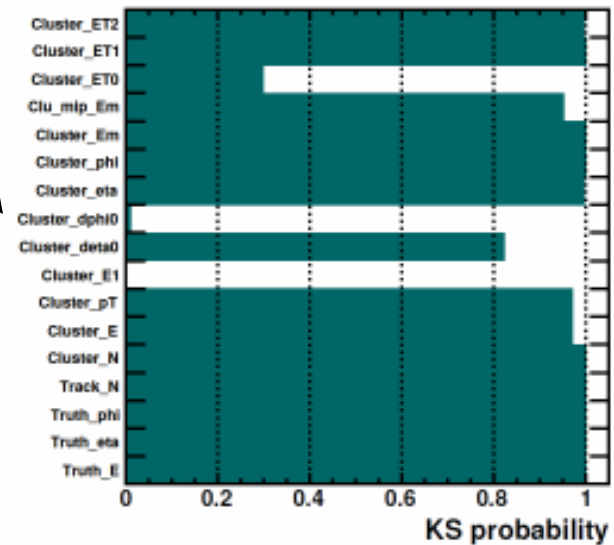
- ⇒ will provide more lateral shape checks, and **shower depth**

⇒ Agreement checks:

- ⇒ by eye
- ⇒ check mean, RMS, Kolmogorov test



Goodness-of-fit (KS prob) for distributions



E_{TOT} , E_{EM} summary

⇒ add plot:

consistency of means vs eta